ELSEVIER

Surface Science 432 (1999) 316–318

surface science

www.elsevier.nl/locate/susc

Author index

Aizawa, T., see Asari 432 (1999) 171
Aloni, S., see Gorelik 432 (1999) 265
Ammer, Ch., see Beckmann 432 (1999) L589
Asari, E., T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171

Barbier, L., see Le Goff 432 (1999) 139
Bartels, L., G. Meyer and K.-H. Rieder, The evolution of CO adsorption on Cu(111) as studied with bare and CO-functionalized scanning tunneling tips 432 (1999) L621
Bäumer, M., see Biener 432 (1999) 178
Bäumer, M., J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189
Beckmann, A., Ch. Ammer, K. Meinel and H. Neddermeyer, The modification of the $\bar{M}$-point Tamm state of Cu(001) at the corresponding vicinal faces 432 (1999) L589
Bei der Kellen, S., see Fluchtmann 432 (1999) 291
Biener, J., M. Bäumer and R.J. Madix, A synchrotron study of the deposition of vanadia on TiO_2(110) 432 (1999) 178
Biener, J., see Bäumer 432 (1999) 189
Bode, M., M. Hennefarth, D. Haude, M. Getzlaff and R. Wiesendanger, Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy 432 (1999) 8
Borstel, G., see Fluchtmann 432 (1999) 291
Bosbach, J., see Wenzel 432 (1999) 257
Bourret, A., How to control the self-organization of nanoparticles by bonded thin layers 432 (1999) 37
Braun, J., see Fluchtmann 432 (1999) 291
Bucher, E., see Nicolay 432 (1999) 95

Calaway, W.F., see Hansen 432 (1999) 199
Chan, S.P., Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125
Chang, M.F., M.S. Hoogeman, M.A.J. Klik and J.W.M. Frenken, The step distance dependence of the kink creation energy determined on vicinal silver surfaces 432 (1999) 21
Claessen, R., see Nicolay 432 (1999) 95
Cobden, P.D., V.V. Gorodetskii and B.E. Nieuwenhuys, Field emission microscope study of the initial behaviour of the palladium–hydrogen system at low temperatures 432 (1999) 61
Craig, R.P., see Creagh 432 (1999) 297
Creagh, C.A., S.M. Thurgate, R.P. Craig and C.P. Lund, Auger photoelectron coincidence spectroscopy of the $2p_{1/2}$ line in coincidence with L_3-$M_{45}M_{45}$ peak of copper 432 (1999) 297

Felmy, A.R., see Rustad 432 (1999) L583
Ferrando, R., see Montalenti 432 (1999) 27
Fluchtmann, M., S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for GaAs(110) 432 (1999) 291
Frenken, J.W.M., see Chang 432 (1999) 21
Fukuda, Y., T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595

Gao, H., see Nicolay 432 (1999) 95
Gauyacq, J.-P., see Lorente 432 (1999) 155
Getzlaff, M., see Bode 432 (1999) 8
Gomes, J.A.N.F., see Gomes 432 (1999) 279
Gomes, J.R.B. and J.A.N.F. Gomes, Adsorption of the formate species on copper surfaces: a DFT study 432 (1999) 279
González Méndez, M.E. and N. Takeuchi, Defects and energy barriers in the Si(100)–Sb and Si(100)–As surfaces: a theoretical study 432 (1999) 239
Gorelik, D., S. Aloni and G. Haase, Single Cs adatoms at Si(001)2 × 1 surfaces: a local surface photovoltage imaging study 432 (1999) 265
Gorodetskii, V.V., see Cobden 432 (1999) 61
Greber, T., see Wider 432 (1999) 170

Haase, G., see Gorelik 432 (1999) 265
Hamai, C., see Tanaka 432 (1999) L611
Hannon, J.B., see Pelhos 432 (1999) 115
Hansen, C.S., W.F. Calaway, M.J. Pellin, B.V. King and A. Wucher, Effects of oxygen dosing on Ca cluster yields and energy distributions 432 (1999) 199
Hartmann, U., see Nicolay 432 (1999) 95
Haude, D., see Bode 432 (1999) 8

Hennefarth, M., see Bode 432 (1999) 8
Hoogeman, M.S., see Chang 432 (1999) 21
Horn von Hoegen, M., see Minoda 432 (1999) 69
Hu, P., see Zhang 432 (1999) 305
Hüfner, S., see Nicolay 432 (1999) 95

Jablonski, A. and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211
Jeong, H.-C. and J.D. Weeks, Effects of step–step interactions on the fluctuations of an individual step on a vicinal surface and its wavelength dependence 432 (1999) 101

Kanno, T., see Tanaka 432 (1999) L611
Kasemo, B., see Zhdanov 432 (1999) L599
Kawai, T., see Tanaka 432 (1999) L611
Kellogg, G.L., see Pelhos 432 (1999) 115
Kiejna, A., J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54
King, B.V., see Hansen 432 (1999) 199
Klik, M.A.J., see Chang 432 (1999) 21
Kreutz, T.J., see Wider 432 (1999) 170

Lau, W.M., see Chan 432 (1999) 125
Le Goff, E., L. Barbier, L. Masson and B. Salanon, Vicinal surfaces: free energy, terrace width distribution and step correlation functions 432 (1999) 139
Lee, M.-H., see Zhang 432 (1999) 305
Lee, S., see Mao 432 (1999) L617
Leung, K.T., see Yu 432 (1999) 245
Liu, Z.F., see Chan 432 (1999) 125
Lorente, N., D. Teillet-Billy and J.-P. Gauyacq, The N_2^- ($^2\Pi_g$) shape resonance in slow N_2* collisions with metallic surfaces 432 (1999) 155
Lund, C.P., see Creagh 432 (1999) 297

Madey, T.E., see Pelhos 432 (1999) 115
Madix, R.J., see Biener 432 (1999) 178
Madix, R.J., see Bäumer 432 (1999) 189
Mao, H., S. Lee and S.-J. Park, The Monte Carlo simulation of epitaxial growth of hexagonal GaN 432 (1999) L617
Maroudas, D., see Rauf Gungor 432 (1999) L604
Masson, L., see Le Goff 432 (1999) 139
Meinel, K., see Beckmann 432 (1999) L589
Meyer, G., see Bartels 432 (1999) L621
Meyer zu Heringdorf, F.-J., see Minoda 432 (1999) 69
Michely, T., G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228
Minoda, H., T. Shimakura, K. Yagi, F.-J. Meyer zu Heringdorf and M. Horn von Hoegen, Gold-induced faceting on an Si(*hhm*) surface ($m/h = 1.4$–1.5) studied by spot profile analyzing low-energy electron diffraction 432 (1999) 69
Montalenti, F. and R. Ferrando, Dimers diffusion on (110)(1 × 2) metal surfaces 432 (1999) 27

Neddermeyer, H., see Beckmann 432 (1999) L589
Nicolay, G., R. Claessen, F. Reinert, V.N. Strocov, S. Hüfner, H. Gao, U. Hartmann and E. Bucher, Fast epitaxy of Au and Ag on WSe_2 432 (1999) 95
Nieuwenhuys, B.E., see Cobden 432 (1999) 61

Osterwalder, J., see Wider 432 (1999) 170

Park, S.-J., see Mao 432 (1999) L617
Peisert, J., see Kiejna 432 (1999) 54
Pelhos, K., J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115
Pellin, M.J., see Hansen 432 (1999) 199

Rauf Gungor, M. and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604
Reinert, F., see Nicolay 432 (1999) 95
Rieder, K.-H., see Bartels 432 (1999) L621
Ritter, M. and W. Weiss, Fe_3O_4(111) surface structure determined by LEED crystallography 432 (1999) 81
Rustad, J.R., E. Wasserman and A.R. Felmy, A molecular dynamics investigation of surface reconstruction on magnetite (001) 432 (1999) L583

Salanon, B., see Le Goff 432 (1999) 139
Sanada, N., see Fukuda 432 (1999) L595
Scharoch, P., see Kiejna 432 (1999) 54
Schwaller, P., see Wider 432 (1999) 170
Sekizawa, T., see Fukuda 432 (1999) L595
Shaikhutdinov, Sh.K. and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627
Shimakura, T., see Minoda 432 (1999) 69
Souda, R., see Asari 432 (1999) 171
Stietz, F., see Wenzel 432 (1999) 257
Strocov, V.N., see Nicolay 432 (1999) 95

Takeuchi, N., see González Méndez 432 (1999) 239
Tanaka, H., C. Hamai, T. Kanno and T. Kawai, High-resolution scanning tunneling microscopy imaging of DNA molecules on Cu(111) surfaces 432 (1999) L611
Teillet-Billy, D., see Lorente 432 (1999) 155
Thurgate, S.M., see Creagh 432 (1999) 297
Tougaard, S., see Jablonski 432 (1999) 211
Träger, F., see Wenzel 432 (1999) 257
Tse, J.S., see Chan 432 (1999) 125

Ugajin, R., Parity oscillation in a square-well quantum dot under a magnetic field 432 (1999) 1

Wasserman, E., see Rustad 432 (1999) L583
Weeks, J.D., see Jeong 432 (1999) 101
Weidenhof, V., see Michely 432 (1999) 228
Weiss, W., see Ritter 432 (1999) 81
Weiss, W., see Shaikhutdinov 432 (1999) L627
Wenzel, T., J. Bosbach, F. Stietz and F. Träger, In situ determi-

nation of the shape of supported silver clusters during growth 432 (1999) 257
Wetli, E., see Wider 432 (1999) 170
Wider, J., T. Greber, E. Wetli, T.J. Kreutz, P. Schwaller and J. Osterwalder, Erratum to: "Direct observation of subsurface oxygen on Rh(111)" [Surf. Sci. 417 (1998) 301] 432 (1999) 170
Wiesendanger, R., see Bode 432 (1999) 8
Wucher, A., see Hansen 432 (1999) 199
Wuttig, M., see Michely 432 (1999) 228

Yagi, K., see Minoda 432 (1999) 69
Ye, G.-X., see Michely 432 (1999) 228
Yu, H. and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7 × 7 by thermal and ion-assisted deposition techniques 432 (1999) 245

Zhang, C.J., P. Hu and M.-H. Lee, A density functional theory study on the interaction between chemisorbed CO and S on Rh(111) 432 (1999) 305
Zhdanov, V.P. and B. Kasemo, Substrate-mediated photoinduced chemical reactions on ultrathin metal films 432 (1999) L599

ELSEVIER

Surface Science 432 (1999) 319–323

surface science

www.elsevier.nl/locate/susc

Subject index

THEORETICAL METHODS, MODELS AND TECHNIQUES

Ab initio quantum chemical methods and calculations

S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125

Atomistic dynamics

E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171

Computer simulations

F. Montalenti and R. Ferrando, Dimers diffusion on (110)(1 × 2) metal surfaces 432 (1999) 27
S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125

Density functional calculations

A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54
S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125
M.E. González Méndez and N. Takeuchi, Defects and energy barriers in the Si(100)–Sb and Si(100)–As surfaces: a theoretical study 432 (1999) 239
C.J. Zhang, P. Hu and M.-H. Lee, A density functional theory study on the interaction between chemisorbed CO and S on Rh(111) 432 (1999) 305

Electron density, excitation spectra calculations

R. Ugajin, Parity oscillation in a square-well quantum dot under a magnetic field 432 (1999) 1
M. Fluchtmann, S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for GaAs(110) 432 (1999) 291

Electron–solid interactions, scattering, diffraction

A. Jablonski and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211

Equilibrium thermodynamics and statistical mechanics

E. Le Goff, L. Barbier, L. Masson and B. Salanon, Vicinal surfaces: free energy, terrace width distribution and step correlation functions 432 (1999) 139

Ion–solid interactions, scattering, channeling

E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171

Many body and quasi-particle theories

R. Ugajin, Parity oscillation in a square-well quantum dot under a magnetic field 432 (1999) 1

Models of non-equilibrium phenomena

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

Models of non-linear phenomena

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

Models of surface chemical reactions

S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125

Models of surface kinetics

V.P. Zhdanov and B. Kasemo, Substrate-mediated photoinduced chemical reactions on ultrathin metal films 432 (1999) L599

Molecular dynamics

J.R. Rustad, E. Wasserman and A.R. Felmy, A molecular dynamics investigation of surface reconstruction on magnetite (001) 432 (1999) L583
F. Montalenti and R. Ferrando, Dimers diffusion on (110)(1 × 2) metal surfaces 432 (1999) 27
A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54

Monte Carlo simulations

H. Mao, S. Lee and S.-J. Park, The Monte Carlo simulation of epitaxial growth of hexagonal GaN 432 (1999) L617
A. Jablonski and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211

Semi-empirical models and model calculations

A. Beckmann, Ch. Ammer, K. Meinel and H. Neddermeyer, The modification of the $\bar{M}$-point Tamm state of Cu(001) at the corresponding vicinal faces 432 (1999) L589
E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171

EXPERIMENTAL SAMPLE PREPARATION AND CHARACTERIZATION METHODS

Atomic force microscopy

T. Wenzel, J. Bosbach, F. Stietz and F. Träger, In situ determination of the shape of supported silver clusters during growth 432 (1999) 257

Auger electron spectroscopy

J. Biener, M. Bäumer and R.J. Madix, A synchrotron study of the deposition of vanadia on TiO_2(110) 432 (1999) 178
A. Jablonski and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211
C.A. Creagh, S.M. Thurgate, R.P. Craig and C.P. Lund, Auger photoelectron coincidence spectroscopy of the $2p_{1/2}$ line in coincidence with L_3-$M_{45}M_{45}$ peak of copper 432 (1999) 297

Electron emission measurements

E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171
M. Fluchtmann, S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for GaAs(110) 432 (1999) 291

Photoemission (total yield)

M. Fluchtmann, S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for GaAs(110) 432 (1999) 291

Electron energy loss spectroscopy

Y. Fukuda, T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595
H. Yu and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7 × 7 by thermal and ion-assisted deposition techniques 432 (1999) 245

Electron microscopy

Low-energy electron microscopy (LEEM)

K. Pelhos, J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115

Electron–solid diffraction

Low energy electron diffraction (LEED)

M. Bode, M. Hennefarth, D. Haude, M. Getzlaff and R. Wiesendanger, Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy 432 (1999) 8
H. Minoda, T. Shimakura, K. Yagi, F.-J. Meyer zu Heringdorf and M. Horn von Hoegen, Gold-induced faceting on an Si(*hhm*) surface (m/h = 1.4–1.5) studied by spot profile analyzing low-energy electron diffraction 432 (1999) 69
M. Ritter and W. Weiss, Fe_3O_4(111) surface structure determined by LEED crystallography 432 (1999) 81
Sh.K. Shaikhutdinov and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627

Field emission microscopy

P.D. Cobden, V.V. Gorodetskii and B.E. Nieuwenhuys, Field emission microscope study of the initial behaviour of the palladium–hydrogen system at low temperatures 432 (1999) 61

Ion scattering spectroscopy

Low energy ion scattering (LEIS)

E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171

Laser methods

C.S. Hansen, W.F. Calaway, M.J. Pellin, B.V. King and A. Wucher, Effects of oxygen dosing on Ca cluster yields and energy distributions 432 (1999) 199

Molecular beam epitaxy

T. Michely, G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228

Photoelectron spectroscopy

A. Jablonski and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211
C.A. Creagh, S.M. Thurgate, R.P. Craig and C.P. Lund, Auger photoelectron coincidence spectroscopy of the $2p_{1/2}$ line in coincidence with L_3-$M_{45}M_{45}$ peak of copper 432 (1999) 297

Angle resolved photoemission

A. Jablonski and S. Tougaard, Escape probability of electrons from solids. Influence of elastic electron scattering 432 (1999) 211

X-ray photoelectron spectroscopy

J. Wider, T. Greber, E. Wetli, T.J. Kreutz, P. Schwaller and J. Osterwalder, Erratum to: "Direct observation of subsurface oxygen on Rh(111)" [Surf. Sci. 417 (1998) 301] 432 (1999) 170

Synchrotron radiation photoelectron spectroscopy

J. Biener, M. Bäumer and R.J. Madix, A synchrotron study of the deposition of vanadia on TiO_2(110) 432 (1999) 178

M. Bäumer, J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189

Photon absorption spectroscopy

T. Wenzel, J. Bosbach, F. Stietz and F. Träger, In situ determination of the shape of supported silver clusters during growth 432 (1999) 257

Near edge extended X-ray absorption fine structure (NEXAFS)

J. Biener, M. Bäumer and R.J. Madix, A synchrotron study of the deposition of vanadia on TiO_2(110) 432 (1999) 178

M. Bäumer, J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189

Visible/ultraviolet absorption spectroscopy

T. Wenzel, J. Bosbach, F. Stietz and F. Träger, In situ determination of the shape of supported silver clusters during growth 432 (1999) 257

Scanning tunneling microscopy

M. Bode, M. Hennefarth, D. Haude, M. Getzlaff and R. Wiesendanger, Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy 432 (1999) 8

M.F. Chang, M.S. Hoogeman, M.A.J. Klik and J.W.M. Frenken, The step distance dependence of the kink creation energy determined on vicinal silver surfaces 432 (1999) 21

M. Ritter and W. Weiss, Fe_3O_4(111) surface structure determined by LEED crystallography 432 (1999) 81

E. Le Goff, L. Barbier, L. Masson and B. Salanon, Vicinal surfaces: free energy, terrace width distribution and step correlation functions 432 (1999) 139

Y. Fukuda, T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595

L. Bartels, G. Meyer and K.-H. Rieder, The evolution of CO adsorption on Cu(111) as studied with bare and CO-functionalized scanning tunneling tips 432 (1999) L621

Sh.K. Shaikhutdinov and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627

M. Bäumer, J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189

D. Gorelik, S. Aloni and G. Haase, Single Cs adatoms at Si(001)2 × 1 surfaces: a local surface photovoltage imaging study 432 (1999) 265

Secondary ion mass spectroscopy

C.S. Hansen, W.F. Calaway, M.J. Pellin, B.V. King and A. Wucher, Effects of oxygen dosing on Ca cluster yields and energy distributions 432 (1999) 199

Work function measurements

A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54

X-ray scattering, diffraction, and reflection

J. Wider, T. Greber, E. Wetli, T.J. Kreutz, P. Schwaller and J. Osterwalder, Erratum to: "Direct observation of subsurface oxygen on Rh(111)" [Surf. Sci. 417 (1998) 301] 432 (1999) 170

PHENOMENA

Auger ejection

N. Lorente, D. Teillet-Billy and J.-P. Gauyacq, The N_2^- ($^2\Pi_g$) shape resonance in slow N_2* collisions with metallic surfaces 432 (1999) 155

Catalysis

J.R.B. Gomes and J.A.N.F. Gomes, Adsorption of the formate species on copper surfaces: a DFT study 432 (1999) 279

Chemisorption

S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125

Y. Fukuda, T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595

H. Yu and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7 × 7 by thermal and ion-assisted deposition techniques 432 (1999) 245

J.R.B. Gomes and J.A.N.F. Gomes, Adsorption of the formate species on copper surfaces: a DFT study 432 (1999) 279

Compound formation

H. Yu and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7 × 7 by thermal and ion-assisted deposition techniques 432 (1999) 245

Diffusion and migration

F. Montalenti and R. Ferrando, Dimers diffusion on (110)(1 × 2) metal surfaces 432 (1999) 27

T. Michely, G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228

Electron bombardment

H. Yu and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7 × 7 by thermal and ion-assisted deposition techniques 432 (1999) 245

Electron emission

M. Fluchtmann, S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for GaAs(110) 432 (1999) 291

Epitaxy

M. Ritter and W. Weiss, Fe_3O_4(111) surface structure determined by LEED crystallography 432 (1999) 81
G. Nicolay, R. Claessen, F. Reinert, V.N. Strocov, S. Hüfner, H. Gao, U. Hartmann and E. Bucher, Fast epitaxy of Au and Ag on WSe_2 432 (1999) 95
H. Mao, S. Lee and S.-J. Park, The Monte Carlo simulation of epitaxial growth of hexagonal GaN 432 (1999) L617
Sh.K. Shaikhutdinov and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627

Faceting

H. Minoda, T. Shimakura, K. Yagi, F.-J. Meyer zu Heringdorf and M. Horn von Hoegen, Gold-induced faceting on an Si(*hhm*) surface ($m/h = 1.4$–1.5) studied by spot profile analyzing low-energy electron diffraction 432 (1999) 69
H.-C. Jeong and J.D. Weeks, Effects of step–step interactions on the fluctuations of an individual step on a vicinal surface and its wavelength dependence 432 (1999) 101
K. Pelhos, J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115

Growth

M. Bode, M. Hennefarth, D. Haude, M. Getzlaff and R. Wiesendanger, Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy 432 (1999) 8
A. Bourret, How to control the self-organization of nanoparticles by bonded thin layers 432 (1999) 37
K. Pelhos, J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115
H. Mao, S. Lee and S.-J. Park, The Monte Carlo simulation of epitaxial growth of hexagonal GaN 432 (1999) L617
J. Biener, M. Bäumer and R.J. Madix, A synchrotron study of the deposition of vanadia on TiO_2(110) 432 (1999) 178
M. Bäumer, J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189
T. Michely, G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228
T. Wenzel, J. Bosbach, F. Stietz and F. Träger, In situ determination of the shape of supported silver clusters during growth 432 (1999) 257

Ion bombardment

H. Yu and K.T. Leung, Electronic and vibrational electron energy loss studies of the formation of SiO_2 and carbonaceous layers on Si(111)7×7 by thermal and ion-assisted deposition techniques 432 (1999) 245

Ion–solid interactions

E. Asari, T. Aizawa and R. Souda, Work-function dependence of Feschbach resonance between alkalated tungsten and excited helium 432 (1999) 171
C.S. Hansen, W.F. Calaway, M.J. Pellin, B.V. King and A. Wucher, Effects of oxygen dosing on Ca cluster yields and energy distributions 432 (1999) 199

Nucleation

K. Pelhos, J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115
T. Michely, G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228

Photochemistry

V.P. Zhdanov and B. Kasemo, Substrate-mediated photoinduced chemical reactions on ultrathin metal films 432 (1999) L599

Photoelectron emission

A. Beckmann, Ch. Ammer, K. Meinel and H. Neddermeyer, The modification of the $\bar{M}$-point Tamm state of Cu(001) at the corresponding vicinal faces 432 (1999) L589

Photon emission

G. Nicolay, R. Claessen, F. Reinert, V.N. Strocov, S. Hüfner, H. Gao, U. Hartmann and E. Bucher, Fast epitaxy of Au and Ag on WSe_2 432 (1999) 95

Photon stimulated desorption

V.P. Zhdanov and B. Kasemo, Substrate-mediated photoinduced chemical reactions on ultrathin metal films 432 (1999) L599

Physical adsorption

S.P. Chan, Z.F. Liu, W.M. Lau and J.S. Tse, $SiCl_4$ desorption in chlorine etching of Si(100) – a first principles study 432 (1999) 125

Quantum effects

R. Ugajin, Parity oscillation in a square-well quantum dot under a magnetic field 432 (1999) 1
A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54

Self-assembly

A. Bourret, How to control the self-organization of nanoparticles by bonded thin layers 432 (1999) 37

Sputtering

C.S. Hansen, W.F. Calaway, M.J. Pellin, B.V. King and A. Wucher, Effects of oxygen dosing on Ca cluster yields and energy distributions 432 (1999) 199

Step formation and bunching

H.-C. Jeong and J.D. Weeks, Effects of step–step interactions on the fluctuations of an individual step on a vicinal surface and its wavelength dependence 432 (1999) 101

Surface chemical reaction

V.P. Zhdanov and B. Kasemo, Substrate-mediated photoinduced chemical reactions on ultrathin metal films 432 (1999) L599

Surface diffusion

F. Montalenti and R. Ferrando, Dimers diffusion on (110)(1 × 2) metal surfaces 432 (1999) 27

K. Pelhos, J.B. Hannon, G.L. Kellogg and T.E. Madey, LEEM investigation of the faceting of the Pt covered W(111) surface 432 (1999) 115

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

T. Michely, G.-X. Ye, V. Weidenhof and M. Wuttig, Silver deposition on oil – cluster nucleation, growth and aggregation on a liquid surface 432 (1999) 228

T. Wenzel, J. Bosbach, F. Stietz and F. Träger, In situ determination of the shape of supported silver clusters during growth 432 (1999) 257

Surface electrical transport (surface conductivity, surface recombination, etc.)

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

Surface electronic phenomena (work function, surface potential, surface states, etc.)

A. Beckmann, Ch. Ammer, K. Meinel and H. Neddermeyer, The modification of the $\bar{M}$-point Tamm state of Cu(001) at the corresponding vicinal faces 432 (1999) L589

Surface energy

J.R. Rustad, E. Wasserman and A.R. Felmy, A molecular dynamics investigation of surface reconstruction on magnetite (001) 432 (1999) L583

A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54

Surface relaxation and reconstruction

J.R. Rustad, E. Wasserman and A.R. Felmy, A molecular dynamics investigation of surface reconstruction on magnetite (001) 432 (1999) L583

A. Kiejna, J. Peisert and P. Scharoch, Quantum-size effect in thin Al(110) slabs 432 (1999) 54

M.E. González Méndez and N. Takeuchi, Defects and energy barriers in the Si(100)–Sb and Si(100)–As surfaces: a theoretical study 432 (1999) 239

Surface roughening

P.D. Cobden, V.V. Gorodetskii and B.E. Nieuwenhuys, Field emission microscope study of the initial behaviour of the palladium–hydrogen system at low temperatures 432 (1999) 61

E. Le Goff, L. Barbier, L. Masson and B. Salanon, Vicinal surfaces: free energy, terrace width distribution and step correlation functions 432 (1999) 139

Surface stress

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

Surface structure, morphology, roughness, and topography

J.R. Rustad, E. Wasserman and A.R. Felmy, A molecular dynamics investigation of surface reconstruction on magnetite (001) 432 (1999) L583

M. Bode, M. Hennefarth, D. Haude, M. Getzlaff and R. Wiesendanger, Growth of thin Mn films on W(110) studied by means of in-situ scanning tunnelling microscopy 432 (1999) 8

M. Ritter and W. Weiss, Fe_3O_4(111) surface structure determined by LEED crystallography 432 (1999) 81

J. Wider, T. Greber, E. Wetli, T.J. Kreutz, P. Schwaller and J. Osterwalder, Erratum to: "Direct observation of subsurface oxygen on Rh(111)" [Surf. Sci. 417 (1998) 301] 432 (1999) 170

Y. Fukuda, T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595

M. Rauf Gungor and D. Maroudas, Nonhydrostatic stress effects on failure of passivated metallic thin films due to void surface electromigration 432 (1999) L604

Sh.K. Shaikhutdinov and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627

M. Bäumer, J. Biener and R.J. Madix, Growth, electronic properties and reactivity of vanadium deposited onto a thin alumina film 432 (1999) 189

M.E. González Méndez and N. Takeuchi, Defects and energy barriers in the Si(100)–Sb and Si(100)–As surfaces: a theoretical study 432 (1999) 239

Surface thermodynamics (including phase transitions)

M.F. Chang, M.S. Hoogeman, M.A.J. Klik and J.W.M. Frenken, The step distance dependence of the kink creation energy determined on vicinal silver surfaces 432 (1999) 21

H.-C. Jeong and J.D. Weeks, Effects of step–step interactions on the fluctuations of an individual step on a vicinal surface and its wavelength dependence 432 (1999) 101

Sh.K. Shaikhutdinov and W. Weiss, Oxygen pressure dependence of the α-Fe_2O_3(0001) surface structure 432 (1999) L627

Vibrations of adsorbed molecules

Y. Fukuda, T. Sekizawa and N. Sanada, Adsorption of *t*-butylphosphine (TBP) on GaP(001)-(2 × 4) and the surface structure studied by HREELS and STM 432 (1999) L595

J.R.B. Gomes and J.A.N.F. Gomes, Adsorption of the formate species on copper surfaces: a DFT study 432 (1999) 279